(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 18 March 2004 (18.03.2004)

PCT

(10) International Publication Number WO 2004/021987 A3

(51) International Patent Classification⁷: 31/415

A61K 31/44,

(21) International Application Number:

PCT/US2003/027612

(22) International Filing Date:

2 September 2003 (02.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/408,597

6 September 2002 (06.09.2002)

- (71) Applicants (for all designated States except US): MERCK & CO., INC. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). MERCK FROSST CANADA & CO. [CA/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MANCINI, Joseph, Anthony [CA/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA). CLAVEAU, David [CA/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA). CHAN, Chi, Chung [CA/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA). NICHOLSON, Donald [CA/CA]; 16711 Trans-Canada Highway, Kirkland, Québec H9H 3L1 (CA). VISCO, Denise, M. [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

- (74) Common Representative: MERCK & CO., INC.; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 10 June 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/27612

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(7) : A61K 31/44, 31/415		
US CL : 514/332,341,365 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
U.S.: 514/332,341,365		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
	•	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
Please See Continuation Sheet		
·		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category * Citation of document, with indication, where	e appropriate, of the relevant passages Relevant to claim No.	
Y US 6,399,636 B1 (FRIESEN et al.) 04 June 200		
and 38-65, specifically line 59.	,,	
X US 5,710,170 A (GUAY et al.) 20 January 1998	(20.01.1998) see column 2, line 41 to 1-7	
column 6, line 50 and column 7, lines 58-68.		
	j	
.		
Further documents are listed in the continuation of Box C	See patent family annex.	
Special categories of cited documents:	"T" later document published after the international filing date or priority	
"A" document defining the general state of the art which is not considered to be	date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
of particular relevance		
"E" earlier application or patent published on or after the international filing dat	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step	
	when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as	"Y" document of particular relevance; the claimed invention cannot be	
specified)	considered to involve an inventive step when the document is	
"O" document referring to an oral disclosure, use, exhibition or other means	combined with one or more other such documents, such combination being obvious to a person skilled in the art	
• • • • • • • • • • • • • • • • • • • •		
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family	
Date of the actual completion of the international search Date of mailing of the international search report		
05 April 2004 (05.04.2004) 22 APR 2004		
Name and mailing address of the ISA/US	Authorized officer	
Sape of the actual completion of the international search S April 2004 (05.04.2004) Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents Authorized officer Theodore J. Criares Theodore J. Criares		
Commissioner for Patents	I neodore J. Criaresc	
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (703) 308-1235		
Facsimile No. (703) 305-3230		

	PCT/US03/27612
INTERNATIONAL SEARCH REPORT	
<u> </u>	
	•
•	
Continuation of B. FIELDS SEARCHED Item 3:	
WEST	
terms searched: rheumatoid arthritis, cyclopentyloxy, phenylacetic acid	
•	,
· ·	
	·